



Federal Communication Commissions
7435 Oakland Mills Road
Columbia MD 21046

Date :Oct. 17, 2002

Applicant : Toshiba Corporation, Product Safety Group

FCC ID: CJ6UPP350SY

Subject: Composite Device Review Summary

To Whom It May Concern:

This is statement made by Compliance Certification Services (CCS) which is the Telecommunication Certification Body (TCB) issued the Grant of Equipment Authorization . The information contains in this letter is to explain the review processes done on the above mentioned application.

Portable Device configuration :

Equipment under Test (EUT) is a Notebook Computer with Touch Screen Platform with Bluetooth Transceiver and 802.11b Wireless LAN transceiver build in. As described in the Chapter 3 of user manual, this notebook computer can be used as Tablet PC mode which the separation distance between Bluetooth antenna and Wireless LAN antenna will be less than 20cm. Based section 2.1093 of FCC rules and considering the TCB exclusion list dated July, 2002, the output power of Wireless LAN transceiver is above low threshold and SAR evaluation is required to qualify for TCB review.

Composite Device :

EUT can be configured and sold in four different ways :

1. Sold as Notebook Computer without the Bluetooth and Wireless LAN transceiver installed . (JBP-Personal Computer)
2. Sold as Notebook Computer with Bluetooth transceiver installed. (DSS – Spread Spectrum Transmitter)
3. Sold As Notebook Computer with Wireless LAN transceiver installed (DTS – Digital Transmission System)
4. Sold as Notebook computer with Wireless LAN and Bluetooth transceiver installed and with simultaneous transmission (Co-location)



Per FCC instruction given on 10/11/2002 (attached at the end), EUT is processed as composite device with three way filings (JBC/DSS/DTS) under the single FCC ID: CJ6UPP350SY.

Bluetooth Transceiver :

The Bluetooth Transceiver installed in the EUT has been previously certified as Transceiver Module under FCC ID: CJ6UPA3232BT with max. peak output power of 0.0014W.

Wireless LAN Transceiver :

The Wireless LAN Transceiver installed in the EUT has been previous certified as Limited Module Approval under FCC ID:CJ6PA3171WL with max. peak output power of 0.085W.

Technical reports submitted and test conditions :

1. Bluetooth Transceiver : All RF conducted emission tests included in this filing are those test data reported in FCC ID:CJ6UPA3232BT. Radiated spurious emission tests co-located with Wireless LAN FCC ID:CJ6PA3171WL has been performed in the configuration #4. SAR evaluation (as non-dominant TX) with Co-location (Wireless LAN – Dominant TX) requirements has been tested in the configuration #4
2. Wireless LAN Transceiver : All RF conducted emission tests included in this filing are those test data reported in FCC ID:CJ6PA3171WL. Radiated spurious emission tests co-located with Bluetooth FCC ID:CJ6UPA3232BT has been performed in the configuration #3 and #4. SAR evaluation (as dominant TX) has been evaluated in the configuration #3 and also with Bluetooth co-location requirements in the configuration #4.
3. Notebook Computer : All tests required under 15.107 and 15.109 has been tested based upon ANSI C63.4 measurement procedures.

Best Regards

A handwritten signature in black ink, appearing to read "Mike C.I. Kuo", is written over a horizontal line.

Mike C.I. Kuo / Director of Certification Division
Compliance Certification Services
Oct. 17, 2002

(FCC instruction attached on next page)



"Joe Dichoso"
<JDICHOSO@fcc.gov
Leone/CSE/IRV/TOSHIBA-TAIS@TOSHIBA-TAIS
v>
<RFABINA@fcc.gov>, "Tim Harrington"

10/11/2002 08:57
approvals of specific PC's with optional
AM
Tx

To: Peter
cc: "Rich Fabina"
<THARRING@fcc.gov>
Subject: Composite
TX's, Re: 1 ID w/ 2

** High Priority **

Hello Peter,
After discussion with Rich, he just informed me of a policy we had
based on
2.907 and 2.908 and it affects the response, below, which I gave to you
earlier.

You can obtain a composite application for the PC with two
transmitters.
However, two additional and separate identifiers are required for
versions
of the PC that has only one transmitter. Therefore, for your proposal,
you
will need possibly four different fcc identifiers. One possibly for the
PC
with no tx. One for the PC with two tx's. One for the PC with the BT
tx.
And one for the PC with the WLAN tx.

Please contact me if you have any questions.

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See below comments from Joe D.
Composite application will be for specific notebook, specific LAN,
specific
BT. One label can be there for all Tx combinations listed below.
Per current TCB list, TCB cannot do if these are modules, so this
approval
is only for a specific model. This TX configuration in other models
requires new application.

>>> Joe Dichoso 09/27/02 04:50PM >>>

This is reference to Peter's request for a laptop PC with two optional radios. Please handle the RF safety requirements for this system.

It is my understanding that the antennas are built into the PC and the cards are installed at a later date only by Toshiba dealers.

End user's do not install the antenna-less radio and there is no user manual information or instructions to open the radio compartment.(This interpretation not applicable for desktop PC's because user's usually open these to change memory, cards.. etc...)

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Assuming that the system configuration, is not on the exclusion list and TCB's can approve it, the system should be filed as a three-way composite application consisting of the PC and two optional transmitter's. This allows one fcc identifier for the entire system.

The system can be sold with one, two or no radio's. The radio's must be tested individually. And if they can transmit at the same time, it must be tested as such. All combinations must be tested.

(END)